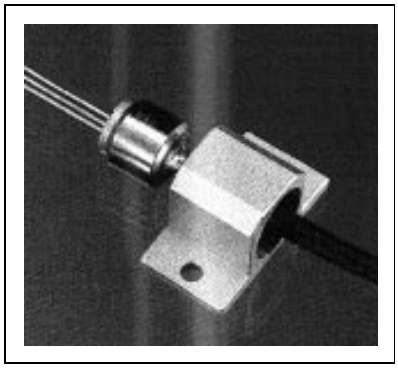
查询Q62702-P3048供应商

SIEMENS

**Ternary PIN Photodiode**
**with Blocking Filter for 3rd Window**

**SRD 00314X**
**SRD 00315X**

- InGaAs/InP - PIN-photodiode
- Designed for telecommunications applications
- Sensitive receiver for the 2nd optical window (1300 nm)
- Suitable for bit rates up to 1.2 Gbit/s
- Low junction and low package capacitance
- Fast switching times
- Low dark current
- Low noise
- Hermetically sealed 3-pin metal case
- Optimally coupled singlemode-fiber pigtail
- High reverse-current stability from planar structure



| Type | Ordering Code | Connector/Flange |
|---|---|---|
| SRD 00314A | Q62702-Pxxxx | Pigtail, DIN singlemode |
| SRD 00315A | Q62702-P3048 | Pigtail with flange, DIN singlemode |
| SRD 00314G | Q62702-Pxxxx | Pigtail, FC/PC-connector |
| SRD 00315G | Q62702-Pxxxx | Pigtail with flange, FC/PC-connector |

**Component with other connector types on request.**

**Maximum Ratings**

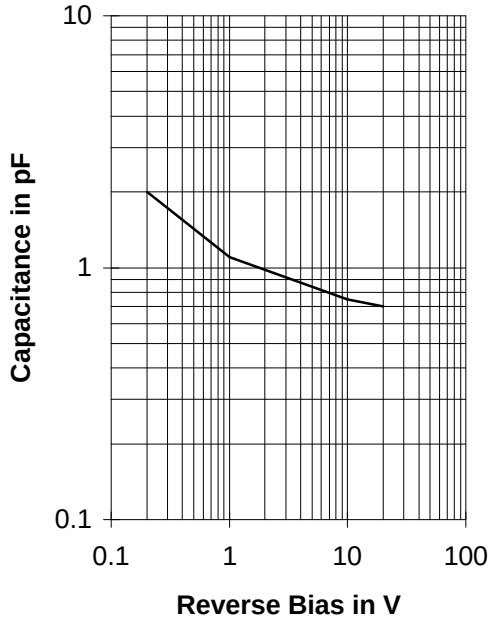
| Parameter | Symbol | Values | Unit |
|---|---|---|---|
| Forward current | $I_F$ | 10 | mA |
| Reverse voltage | $V_R$ | 20 | V |
| Operating and storage temperature | $T_A$ $T_{stg}$ | – 40 … + 85 | °C |
| Max. radiant power into the opt. port ($V_R$ = 5 V) | $\Phi_{port}$ | 1 | mW |
| Soldering time (wave / dip soldering), distance between solder point and base plate (≥ 2 mm, 260 °C) | $t_s$ | 10 | s |

## Characteristics

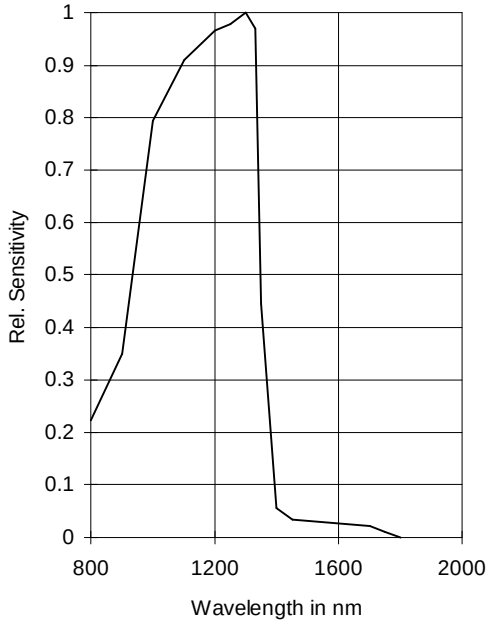
All optical data refer to a coupled 10/125 µm SM fiber at ambient temperature of 25 °C, unless otherwise defined.

| Parameter | Symbol | Values | Unit |
|---|---|---|---|
| Spectral sensitivity<br>$\lambda$ = 1310 nm, $V_R$ = 2V | $S_\lambda$ | 0.80 (≥ 0.70) | A/W |
| Change in spectral sensitivity in operating temperature range | $S_\lambda$ | ≤ 0.2 | %/K |
| Rise and fall time (10% – 90%)<br>$R_L$ = 50 Ω, $V_R$ = 2 V, $\lambda$ = 1310 nm, $\Phi_{port}$ = 100 µW | $t_r$; $t_f$ | 0.3 (≤ 0.5) | ns |
| Total capacitance<br>$V_R$ = 2 V, $\Phi_{port}$ = 0, $f$ = 1 MHz | $C_2$ | 1 (≤ 1.5) | pF |
| Dark current<br>$V_R$ = 2 V, $T_A$ = 85 °C, $\Phi_{port}$ = 0 | $I_D$ | 1 (< 50) | nA |
| Optical attenuation for 3rd window<br>Cross talk | $CRT$ | – 50 | dB |
| Backreflection of optical power into optical port | $R$ | ≤ – 30 | dB |

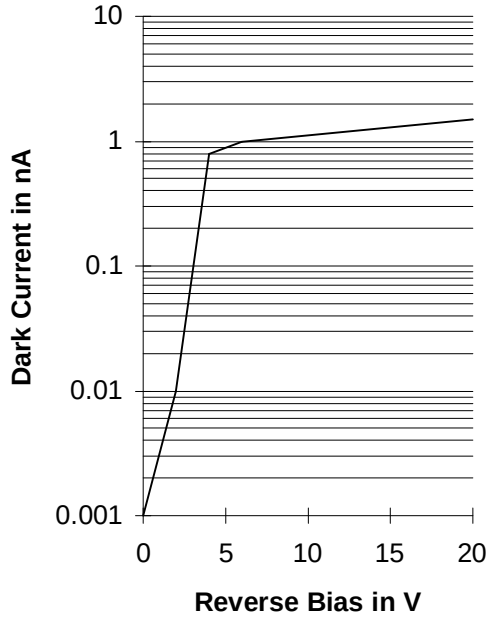
**Capacitance $C = f(V_R)$**
$\Phi_{port} = 0$, $f = 1$ MHz



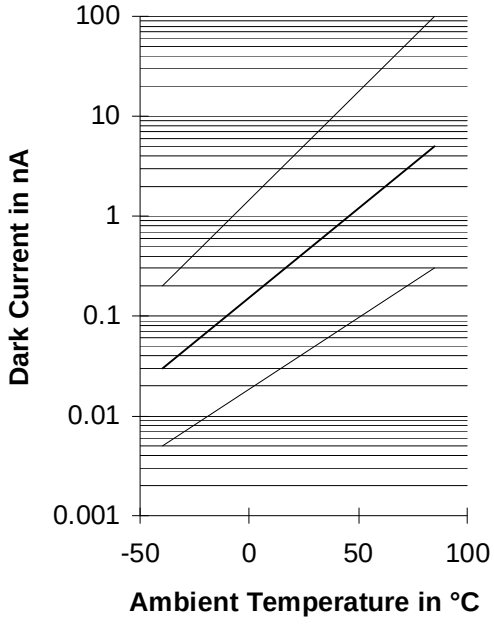

**Relative Spectral Sensitivity**
$V_R = 5$ V



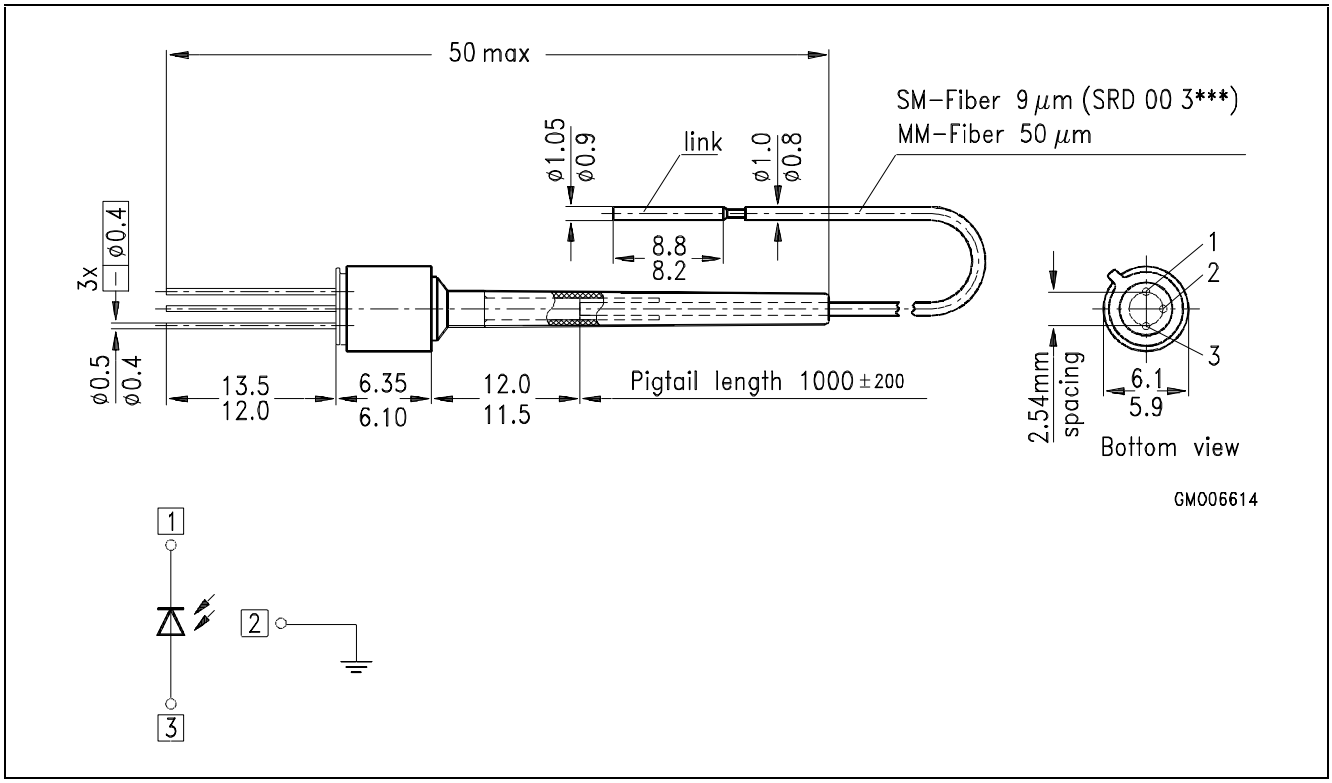

**Dark Current $I_R = f(V_R)$**
$I_F = f(V_F)$




**Dark Current $I_R = f(T_A)$**
$\Phi_{port} = 0$, $V_R = 5$ V



## Package Outlines (Dimensions in mm)

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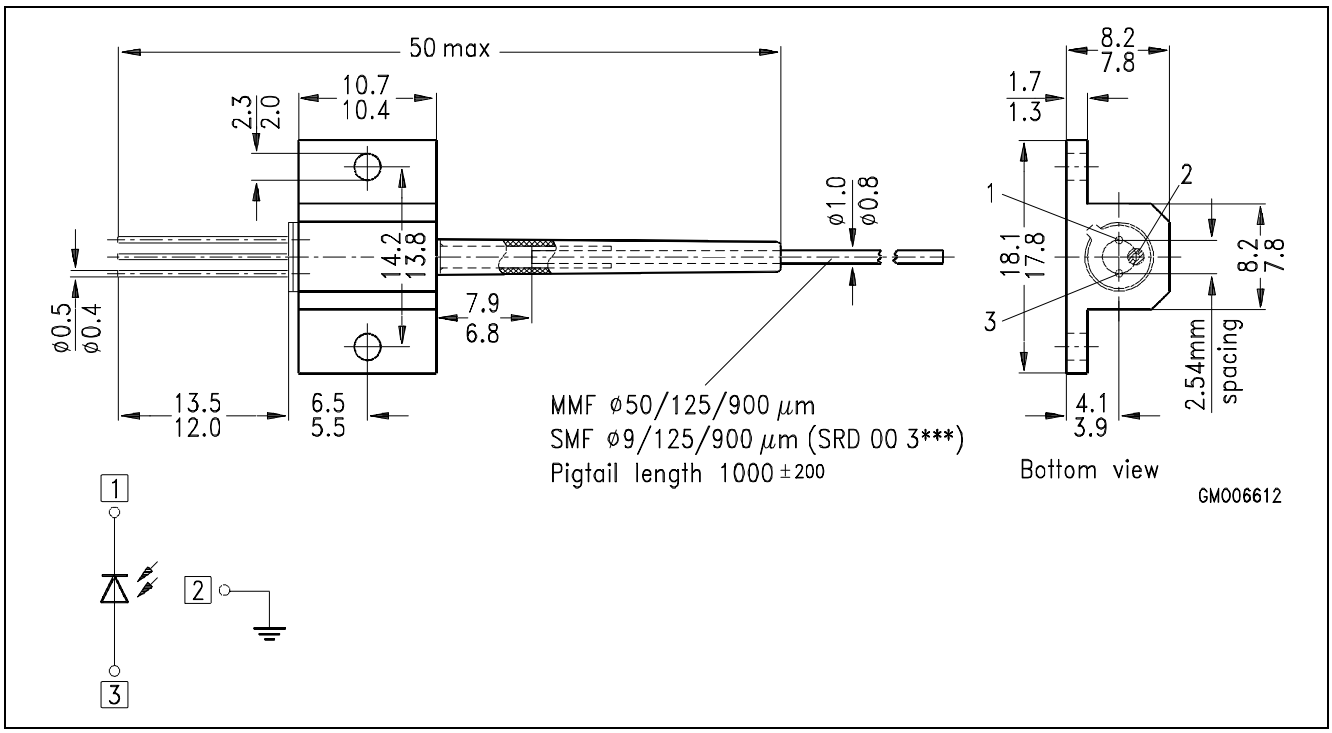


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